

TECHNOLOGY PROBLEM SOLVING LEVELS I & II

OVERVIEW: TSA teams entering the Technology Problem Solving event, are required to use a team approach to provide an adequate solution to a given problem, within a specified and limited time frame. Design, function, cooperative teamwork, and originality are the primary elements evaluated. This is a National Event.

I. PURPOSE

The purpose of this event is to provide students with an experience in problem solving. Students, working in teams of two, will use critical thinking skills in order to develop a satisfactory solution to the stated problem.

II. ELIGIBILITY FOR ENTRY

A. Must be current TSA state and national member and registered State Conference participant.

D. This is a team event. Each chapter may enter up to four teams. A team consists of two chapter members.

III. LIMITATIONS

The allotted time for design and construction of the solution will be two hours. Participants in this event must arrive and be "in place", at the specified time and location.

IV. SPECIFIC REGULATIONS

National rules may differ from state rules. Individuals planning on participating in national competition must adhere to national rules.

A. A team will consist of two members.

B. All work must be done in the specified area.

C. All materials will be provided. No additional materials will be allowed during construction of the solution.

D. All tools will be provided.

E. The Conference Coordinator will provide the problem for each conference.

F. Participants will be given the problem and evaluation criteria upon entering the event room. The event problem and criteria for evaluation will be available to TSA chapter advisors, after the event is complete.

G. Event problems will be selected from areas such as, but not limited to:

1. Transportation solutions.
2. Communication solutions.
3. Production solutions.
4. Construction solutions.
5. Societal/future solutions.
6. Applications of technology.

V. REQUIRED EVENT PERSONNEL

- A. Event Coordinator.
- B. Judges, minimum of three.
- C. Timekeeper/monitor.

VI. REQUIRED MATERIALS AND SUPPLIES

- A. Tables and chairs for event judges.
- B. Tables and chairs for participants' use while constructing their solution.
- C. Adequate conditions for the prescribed problem inside or outside.
- D. Stopwatch or clock for timekeeper.
- E. Technology problem and evaluation criteria.
- F. Tools and supplies needed for developing solutions.

VIII. CRITERIA FOR JUDGING

- A. Creativity of Solution..... TBD by State Advisor
- B. Function of Solution..... TBD by State Advisor
- C. Design of Solution TBD by State Advisor
- D. Originality of Solution..... TBD by State Advisor
- Total..... 100 points maximum
- Rules Violation..... Minus 20 points